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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/721,806 | 11/25/2003 | Thomas T. Hardt | 200311361-1 | 6209 |

22879 7590 06/10/2005

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EXAMINER

EDWARDS, ANTHONY Q

ART UNIT PAPER NUMBER

2835

DATE MAILED: 06/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/721,806

Applicant(s)

HARDT ET AL.

Examiner

Anthony Q. Edwards

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 March 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☒ Claim(s) 30 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 November 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “interface board mounted only to said first drawer” must be shown or the feature(s) canceled from the claim(s); note that Fig. 4 shows interface board (46) “mounted” to both the front (28) and rear (30) drawers, via connectors (62) and (64), respectively. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are also objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character “60” has been used to designate both a drawer (Fig. 4) and a latch (Figs. 3

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and 5). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Regarding claim 1, which recites "an interface board mounted only to said first drawer," there is no mention on this limitation in the specification. Claims 2-9 depend from claim 1 and are rejected for at least the same reasons.

Likewise, claim 10 recites "a midplane board affixed solely to said first drawer," but there is no mention on this limitation in the specification. Claims 11-19 depend from claim 10 and are rejected for at least the same reasons.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6, 9-15, 18, 20, 21 and 23-28 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S Patent No. 6,594,150 to Creason et al. ("Creason" hereinafter). Referring to claim 1, Creason discloses a computer chassis (see Figs. 1A and 1B) comprising a chassis base (106), a first drawer (102/200) removably engaged with said chassis base (see Figs. 2, 3 and 6 and col. 4, lines 6-11), and interface board (308) mounted only to said first drawer (200) so as to couple to a first electric component when the first electrical component is located in the first drawer (see Figs. 2 and 3), a second drawer (104/400) removably engaged with said chassis base (106), see Figs. 4, 5 and 7, and a connector (not numbered), see Fig. 7, mounted to said second drawer (400) so as to couple to a second electrical component when the second electrical component is located in the second drawer (see Fig. 5), wherein said connector engages said interface board (308), i.e., via board 108, so as to couple the first electrical component to the second electrical component when the first and second electrical components are located in the respective first and second drawers.

Referring to claim 2, Creason discloses a computer chassis, wherein said first and second drawers slidably engage said chassis base (see Figs. 3 and 5).

Referring to claim 3, Creason discloses a computer chassis, further comprising a latch operable to secure said first drawer to said chassis base, wherein said latch is hand-operable. See col. 4, lines 9-11.

Referring to claim 4, Creason discloses a computer chassis, wherein said first drawer (200) further comprises a power supply bay, a hard drive bay, and a media module bay. See Fig. 3 and col. 4, lines 12-29.

Referring to claim 5, Creason discloses a computer chassis, wherein said second drawer (400) further comprises an expansion card bay, a processor bay, a cooling system bay and a memory bay. See Fig. 5 and the corresponding specification.

Referring to claim 6, Creason discloses a computer chassis, further comprising a motherboard (508) mounted to said second drawer (400) and coupled to said connector, i.e., via board 108, see Fig. 1B.

Referring to claim 9, Creason discloses a computer chassis, wherein the first electrical component (212) is directly connected to said interface board (308) when the first electrical component is located in the first drawer. See Figs. 2 and 3.

Referring to claim 10 and the corresponding method of claim 25, Creason discloses a computer comprising a first electrical component (206/302), a first drawer (102/200) operable to receive said first electronic component, a midplane board (308) affixed solely to said first drawer and coupled to said first electrical component (see Figs. 2, 3 and 6), a second electrical component (110), a second drawer (i.e., bay(s), see Fig. 1B) operable to receive said second electrical component (see col. 3, lines 46-49), a connector (not numbered) mounted to said second drawer (see Fig. 1B) and coupled to said second electrical component (110), and a

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chassis base (106) supporting said first drawer (102/200) and said second drawer (i.e., bay (s)) such that said connector is coupled to said midplane board (308). See Figs. 4, 10 and 12.

Referring to claim 11 and the corresponding method of claim 27, Creason discloses a computer, wherein said first electrical component (302) is horizontally received in said first drawer (see Fig. 3).

Referring to claim 12 and the corresponding method of claim 26, Creason discloses a computer, wherein said midplane board (308) is vertically mounted to said first drawer (see Fig. 3).

Referring to claim 13 and the corresponding method of claim 28, Creason discloses a computer, wherein said second electrical component (110) is vertically received by said second drawer (see Fig. 1B).

Referring to claim 14, Creason discloses a computer, further comprising a motherboard (not numbered) horizontally mounted to said second drawer (i.e., bay(s)) and inherently coupled to said connector (see Fig. 1B).

Referring to claim 15, Fig. 3 of Creason shows a computer, wherein said first electrical component is a power supply module (206/208).

Referring to claim 18, Figs. 3 and 6 of Creason show a computer, wherein said first electrical component (206/208) is directly connected to said midplane board (308).

Referring to claim 20, Creason discloses an electrical assembly (Figs. 1A and 1B) comprising means (i.e., screws) for mounting an interface board (308) to a drawer (200) that is slidably engaged a chassis (see Fig. 3), means (i.e., connectors) for coupling a first electrical component (212/302) to one side of the interface board (308), and means (i.e., connectors) for

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coupling a second electrical component (110) to the other side of the interface board. See Figs. 1B and 7, as well as col. 3, lines 45-49.

Referring to claim 21, Creason discloses an electrical assembly, wherein said first electrical component comprises a power supply module (206). See Fig. 3.

Referring to claim 23, Creason discloses an electrical assembly, wherein the interface board (308) is vertically mounted in the chassis. See Fig. 3.

Referring to claim 24, Creason discloses an electrical assembly, wherein the means for coupling the electrical components to the interface board slidably engage. See Fig. 3.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 16, 17, 22 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Creason, except for the specific locations of the various electrical components. It is well known, however, in the art of computer chassis assembly systems to rearrange parts where needed (see *In re Japikse*, 181 F.2d 1019, 86 USPQ 70 (CCPA 1950)).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device of Creason, such that the power supply bay, the hard drive bay, the media module bay the expansion card bay, the processor bay, the cooling system bay, and the memory bay are located in either the first drawer or the second drawer, according to the system

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requirements, since it has been held that rearranging parts of an invention involves only routine skill in the art.

Allowable Subject Matter

Claim 30 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The following is a statement of reasons for the indication of allowable subject matter: the specific limitation of the first electrical component and the connector being directly connected to the midplane board, in combination with other elements, are not taught or suggested by the prior art references.

Although claims 7, 8 and 19 contain allowable subject, the claims stand rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The allowable subject matter relating to claim 7 is as follows: the specific limitation of the motherboard being directly interconnected to the connector, in combination with other elements, are not taught or suggested by the prior art references. Claim 8 depends from claim 7 and therefore includes the allowable subject matter indicated above.

Referring to claims 19, the specific limitation of the connector being directly connected to the midplane, in combination with other elements, are not taught or suggested by the prior art references.

Response to Arguments

Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Q. Edwards whose telephone number is 571-272-2042. The examiner can normally be reached on M-F (7:30-3:00) First Friday Off.

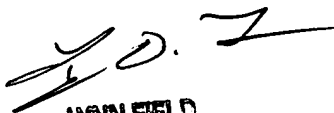
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D. Feild can be reached on 571-272-2800, ext. 35. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 8, 2005

aqe


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